

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISIONS
FOR
PORTABLE LONGITUDINAL BARRIER**

These special provisions amend and where in conflict, supersede applicable sections of the 2009 Standard Specifications for Highway Construction, English and Metric.

877.02 MATERIALS *(Replace with the following:)*

Provide materials in accordance with the following sections:

<u>Material:</u>	<u>Section:</u>
Portland Cement Concrete, Class A	701
White Concrete	701.14
Reinforcing Steel	723

Submit alternative designs for approval by the Engineer before starting the manufacture of concrete barriers. The Engineer will consider alternative and special design features influencing the casting of a section, and attachments or holes that facilitate the handling and lifting of a section. Ensure alternative designs meet the exterior dimensions as shown on the Plans and performance criteria in accordance with NCHRP 350 test level three (TL-3) guidelines.

The Contractor may choose to utilize a steel barrier section in lieu of a concrete barrier section. The steel barrier system must be approved for use and listed on the ODOT Traffic Division Qualified Products List (QPL). Ensure the steel barrier system meets all performance criteria in accordance with NCHRP-350 test level three (TL-3) guidelines.

Ensure all structural elements for the steel barrier system are fabricated from galvanized steel. Ensure all bolts, nuts and washers are galvanized.

877.04 CONSTRUCTION METHODS *(Replace with the following:)*

At the locations shown on the Plans, or as directed by the Engineer, provide crashworthy impact attenuators or end treatments for portable longitudinal barrier systems. Ensure the portable longitudinal barrier systems and end treatments satisfy the NCHRP Report 350 for test level three (TL-3) guidelines. Submit certified test results meeting the test and performance criteria in accordance with NCHRP 350 guidelines.

Deliver, locate, and align the portable longitudinal barrier system as shown on the Plans, or as directed by the Engineer. Ensure the surface between the portable longitudinal barrier system and the edge of the traveled way is smooth, without edge drop-offs, holes, depressions, or slope changes.

When the Project no longer requires portable longitudinal barriers to protect the work site or traveling public, remove the barriers and hardware from the Project.

If utilizing Department owned portable longitudinal barrier, deliver it to the Department storage facility shown on the Plans upon completion of the work requiring its use. At the storage facility, stockpile the barrier sections and store hardware in sturdy containers marked for future use.

A. Concrete Longitudinal Barrier

Before casting the portable longitudinal barrier, notify the Engineer of the casting site and start date. Mix, place, finish, and cure the longitudinal barriers in accordance with Subsection 627.04, "Construction Methods."

Submit written certification indicating barrier fabrication in accordance with the Specifications before delivering portable longitudinal barriers to the Project.

Prevent damage to longitudinal barrier sections and hinges during fabrication, storage, handling, and placement. Repair minor chipping, spalling, and scars as directed by the Engineer. Make repairs, or replace damaged sections and hinges at no additional cost to the Department.

Finish surfaces supporting the portable longitudinal barrier units to provide a full and uniform bearing over the entire bearing area. Correct bearing defects as approved by the Engineer. Connect or join units as shown on the Plans. Align joint units horizontally and vertically to present a uniform appearance.

B. Steel Longitudinal Barrier

Construct the steel barrier system from a series of individual sections. Ensure each barrier section is no longer than 50 ft [15.24 m] and no shorter than 13 ft [4 m]. Anchor each end section of the barrier to the roadway in accordance with the manufacturer's recommendations. Accomplish barrier system section connections in accordance with the manufacturer's recommendations.

877.05 METHOD OF MEASUREMENT *(Add the following:)*

Measure *Deliver Portable Longitudinal Barrier* as the quantity of Department approved Contractor owned barrier delivered to the project, and placed in its first functional location and removed from its last functional location on the project.

Measure *Relocation of Longitudinal Barrier* as the quantity of barrier moved from one functional location to another functional location on the project site, when specified on the plans.

877.06 BASIS OF PAYMENT *(Replace with the following:)*

The Department will pay for each pay item at the contract unit price per the specified pay unit as follows:

Pay Item:	Pay Unit:
(A) Deleted	
<u>(B) DELIVER PORTABLE LONGITUDINAL BARRIER</u>	<u>Linear Foot [Meter]</u>
<u>(C) RELOCATION OF PORTABLE LONGITUDINAL BARRIER</u>	<u>Linear Foot [Meter]</u>

The Department will pay 80 percent of the contract unit price for *Deliver Portable Longitudinal Barrier* upon delivery and placement of the portable longitudinal barrier to the project in its first functional location, as shown on the Plans. The Department will pay the remaining 20 percent after removal of the barrier from its last functional location on the Project.

For *Relocation of Portable Longitudinal Barrier*, the Department will pay the contract unit price after the barrier is moved from one functional location to another functional location within the project limits, as shown on the Plans.